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**Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/690,613 10/16/00 GARCIA-SINCLAIR

N ULTIMATE-383

EXAMINER

MM91/0711

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BOB

ART UNIT

PAPER NUMBER

2837

DATE MAILED:

07/11/01

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

**Office Action Summary**

Application No.

09/690,613

Applicant(s)

GARCIA-SINCLAIR ET AL.

Examiner

Bentsu Ro

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claims \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 October 2000 is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. § 119**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

**Attachment(s)**

- 15) ☒ Notice of References Cited (PTO-892)
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 17) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 18) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 19) ☐ Notice of Informal Patent Application (PTO-152)
- 20) ☐ Other: \_\_\_\_\_.

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## FIRST OFFICE ACTION

1. Drawing corrections are required as follows:

- In sheet 2/10, label the drawings as "FIG. 2A" and "FIG. 2B".
- In sheet 9/10, there are two "FIG. 9B". The lower-right one of the "FIG. 9B" should be changed to --FIG. 10B--.
- In FIG. 3A, the phase coils do not connect in parallel, namely, dots are required to connect all A-phase coils, B-phase coils, and C-phase coils in parallel.

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee US Patent No. 4,882,524 in view of the followings:

- a well known equivalent parallel/series circuit connection. **OR**
- any one of US Patents 4,459,87 (Barge); 5,614,799 (Anderson et al); 5,821,660 (Anderson); or 5,847,532 (Webster).

Applicant's invention is very similar to the prior art US Patent No. 4,882,524 disclosed by Lee, except Lee teaches a series connection of phase coils whereas applicant discloses a parallel connection of the phase coils. Specifically, applicant should compare the similarity of his Figs. 1-11 respectively with Figs. 1-11 of Lee's '524 patent.

It is well known in the art that motor windings (or coils) connected in series may also be connected in parallel without change the operating characteristic of the motor. For example, three serially connected windings powered by a constant current source may be connected in parallel and powered by three time magnitude of the same constant current source.

Further, it is well established that a serially connected circuit can be equivalently converted into a parallelly connected circuit without changing the property of the circuit. These are well known art in electric circuitry.

In view of the foregoing, it would have been obvious to a skilled person in the art to connected the Lee's motor coils in parallel to achieve the same subject matter as claimed.

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Alternatively, motor coils connected in parallel is taught by Barge (Figs. 6 and 8), Anderson et al (Figs. 2A and 2B), Anderson (Fig. 1), or Webster (Fig. 5). In view of these prior art teachings, it would have been obvious to a skilled person in the art to connected the Lee's motor coils in parallel to achieve the same subject matter as claimed.

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

5. Any inquiry concerning this communication should be directed to Bentsu Ro at telephone number (703) 308-3656.

July 3, 2001

*Bentsu Ro*  
**BENTSU RO**  
**PRIMARY EXAMINER**